

Title (en)

Method of forming coating film and apparatus therefor

Title (de)

Verfahren und Vorrichtung zur Beschichtung eines Filmes

Title (fr)

Méthode et dispositif pour appliquer un film

Publication

EP 0618504 B1 20010926 (EN)

Application

EP 94104793 A 19940325

Priority

- JP 9257993 A 19930325
- JP 13259493 A 19930510
- JP 18344293 A 19930630
- JP 18344393 A 19930630
- JP 34371793 A 19931216
- JP 34372293 A 19931216
- JP 34734893 A 19931224
- JP 34881293 A 19931227
- JP 35405293 A 19931228
- JP 35405493 A 19931228

Abstract (en)

[origin: EP0618504A2] An apparatus for forming a coating film, comprises a spin chuck (2) for supporting a substrate (W) with one surface facing upward and rotating the substrate about a vertical axis, a first nozzle (3) for supplying a solvent of a coating solution on the substrate, and a second nozzle (4) for supplying the coating solution on a central portion of the substrate. The first and second nozzles are supported by a head (5) such that the supported nozzle moves between a dropping position above the substrate and a waiting position offset from the substrate. The solvent and coating solution are diffused along the surface of the substrate by rotating the spin chuck. <IMAGE>

IPC 1-7

G03F 7/16

IPC 8 full level

B05C 11/08 (2006.01); **G03F 7/16** (2006.01)

CPC (source: EP KR US)

B05C 11/08 (2013.01 - EP US); **G03F 7/162** (2013.01 - EP US); **H01L 21/31** (2013.01 - KR); **H01L 21/67017** (2013.01 - US); **H01L 21/6715** (2013.01 - US)

Cited by

CN102698926A; EP1372185A3; EP0863538A3; DE19607166A1; US5720814A; DE19607166C2; US6302960B1; US6203849B1; WO9849010A3; WO9743051A1; TWI660832B; WO0108814A1; WO0030767A1; US6884462B2; US6758908B2; US6284676B1; US6579471B2

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0618504 A2 19941005; **EP 0618504 A3 19960410**; **EP 0618504 B1 20010926**; CN 1059967 C 20001227; CN 1102505 A 19950510; DE 69428391 D1 20011031; DE 69428391 T2 20020704; KR 100284556 B1 20010402; KR 940022743 A 19941021; SG 130022 A1 20070320; SG 93216 A1 20021217; US 5658615 A 19970819; US 5942035 A 19990824; US 6063190 A 20000516

DOCDB simple family (application)

EP 94104793 A 19940325; CN 94104922 A 19940325; DE 69428391 T 19940325; KR 19940006105 A 19940325; SG 1999004149 A 19940325; SG 200400577 A 19940325; US 21763694 A 19940325; US 28719399 A 19990406; US 68691096 A 19960726